

IN THE CLAIMS

Cancel Claims 46 - 51 and enter new Claims 52 - 60 as follows:

52. (New) Apparatus for injecting a substance into a mass having a surface comprising:

- (a) a needle assembly including a needle having a tip;
- (b) a container for containing said substance;
- (c) means for conducting said substance from said container to said needle;
- (d) driving means for driving said needle into said surface and deliver said substance below said surface;
- (e) said driving means comprising a body spaced from said needle assembly; and
- (f) said driving means including means for accelerating said body to strike said needle assembly and drive said needle into said surface after said body has been accelerated.

53. (New) The apparatus of Claim 52 wherein said needle assembly has energy and momentum after said acceleration, and wherein the majority of said energy for penetrating said surface comes from said momentum.

54. (New) The apparatus of Claim 52 including means for pneumatically accelerating said body.

55. (New) The apparatus of Claim 52 wherein said means for accelerating said body includes a spring.

56. (New) The apparatus of Claim 52 wherein said body comprises a block slidably mounted in a conduit.

57. (New) Apparatus for injecting a substance into a surface which apparatus comprises (i) a needle having a tip, (ii) a container for the substance to be injected, (iii) a means for applying the substance from the container to the tip of the needle, (iv) a driving means for driving the needle to penetrate the surface and deliver the substance thereto which means comprises a block slidably mounted in a conduit which block is accelerated by a controlled force so as to project the block down the said conduit to strike the needle assembly thereby inducing an acceleration of the needle to drive it into the surface.

58. (New) The apparatus of Claim 57 including pneumatic means for driving said block in said conduit.

59. (New) The apparatus of Claim 57 wherein said driving means includes stop means for stopping said needle after penetration of said surface.

60. (New) The apparatus of Claim 57 wherein said needle includes holes along its length.

LISTING OF CLAIMS

CLAIMS 1 - 51 (CANCELED)

CLAIMS 52 - 60 (NEW)